

Title (en)

METHOD FOR FORMING A THERMOPLASTIC COMPOSITION THAT CONTAINS A PLASTICIZED STARCH POLYMER

Title (de)

VERFAHREN ZUR FORMUNG EINER WÄRMEHÄRTENDEN ZUSAMMENSETZUNG MIT EINEM WEICHGEMACHTEN STÄRKEPOLYMER

Title (fr)

PROCÉDÉ POUR LA FORMATION D'UNE COMPOSITION THERMOPLASTIQUE QUI CONTIENT UN POLYMÈRE AMIDON PLASTIFIÉ

Publication

**EP 2794215 B1 20180411 (EN)**

Application

**EP 12861005 A 20121218**

Priority

- US 201113330789 A 20111220
- IB 2012057438 W 20121218

Abstract (en)

[origin: US2013157031A1] A method and system for melt processing a thermoplastic composition that contains a starch and plasticizer is provided. The composition is melt blended and extruded through a die to form an extrudate, which is thereafter cooled using a multi-stage system of the present invention that includes at least one water-cooling stage and at least one air-cooling stage. More particularly, the extrudate is initially contacted with water for a certain period time so that it becomes partially cooled and solidified on its surface. After the water-cooling stage(s), the extrudate is also subjected to at least one air-cooling stage in which a stream of air is placed into contact with the extrudate.

IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

- US 6231970 B1 20010515 - ANDERSEN PER JUST [US], et al
- N. N.: "Ideen verbinden, Technik nutzen", LAMB UNTERNEHMENS Broschüre, 28 April 2011 (2011-04-28), Würzburg, pages 1 - 20, XP055293202, Retrieved from the Internet <URL:http://www.lamb.de/uploads/media/products/Lamb\_Imagebroschuere.pdf> [retrieved on 20160803]

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